

CLAIMS

What is claimed is:

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1. A hose assembly comprising:

an inner fluoropolymer layer having a smooth inner surface; and
an outer polyamide layer having an corrugated outer surface.

2. The assembly according to claim 1, further characterized by said
10 outer polyamide layer having a corrugated outer surface alternating with a
smooth outer surface.

3. The assembly according to claim 1, further characterized by said
inner fluoropolymer layer being melt extrudable.

4. An assembly according to claim 1, further characterized by said
15 inner fluoropolymer layer being chemically resistant to fuels and fuel additives.

5. An assembly as set forth in claim 1, further characterized by
including at least one braided layer disposed between said inner and outer
layers.

6. An assembly as set forth in claim 1, further characterized by
20 including at least one braided layer disposed on said outer layer.

7. An assembly according to claim 5, further characterized by said

braided layer comprising glass fibers.

8. An assembly according to claim 1, further characterized by said polyamide material of said outer layer including a material selected from the group consisting essentially of: nylon alloy, nylon 6; nylon 6,6; nylon 11; and
5 nylon 12.

9. An assembly according to claim 8, further characterized by said fluoropolymer material of said inner layer including a material selected from the group consisting essentially of: polytetrafluoroethylene; perfluorinated ethylene-propylene; perfluoroalkoxy fluorocarbon resin; and polyfluoroethylene, THV,
10 modified fluoropolymer.

10. An assembly as set forth in claim 1, further characterized by said outer polyamide layer being expanded or not expanded.

11. An assembly as set forth claim 1, further characterized by said inner fluoropolymer layer being expanded or unexpanded.

12. An assembly as set forth in claim 1, further characterized by said
15 outer polyamide layer having spiral undulations on said outer surface.

13. An assembly as set forth in claim 1, further characterized by said outer polyamide layer having circular undulations on said outer surface.

14. A method of making a hose assembly including the steps of:
20 forming a smooth inner fluoropolymer layer; forming an outer polyamide layer over the inner fluoropolymer layer while adhering said outer and inner layers

together; and corrugating said outer polyamide layer.

15. A method as set forth in claim 14, said first forming a smooth inner fluoropolymer layer.

16. A method as set forth in claim 14, forming step being further
5 defined as extruding the outer polyamide layer over the smooth inner fluoropolymer layer.

17. The method as set forth in claim 14, further characterized by depositing at least one braided layer between said inner and said outer layers.

18. The method as set forth in claim 14, further characterized by
10 positioning an integral conductive strip in the inner layer which is co-extensive for the length of the inner layer for conducting electrical charges along the length of the inner layer.

19. The method as set forth in claim 14, said corrugating step further defined as forming a spiral corrugation on the outer polyamide layer.

15 20. The method as set forth in claim 14, said corrugation step further defined as forming a circular corrugation on the outer polyamide layer.